

April 22, 2004
(Revised April 27, 2004)

Voluntary Program

INSTALLATION OF THE LOW NO_x REBUILD KIT ON CERTAIN (DEFINED IN THE AFFECTED PRODUCT SECTION) 3116, 3126, 3126B, 3176B, C-10, C-12, AND 3406E ENGINES.

SMCS 1920

RP5581

THIS PROGRAM IS BEING INITIATED AS A RESULT OF A VOLUNTARY AGREEMENT BETWEEN CATERPILLAR, INC. AND THE CALIFORNIA AIR RESOURCES BOARD (ARB)

NOTE: This Program can be administered whenever requested by or agreed to by the customer. When reporting the installation of the Low NO_x Rebuild Kit, use "RP5581" as the Part number and "7738" as the Group Number. Use "96" as the Warranty Claim Description Code and use "Z" as the SIMS Description Code.

TERMINATION DATE

December 28, 2009

PROBLEM

Caterpillar, along with other manufacturers of heavy-duty diesel engines, has entered a voluntary agreement with the California Air Resources Board to expand the scope of Low NO_x software upgrades in California. This notice describes the expanded upgrade program and your role in implementing the program.

Our agreement with ARB applies to California-registered vehicles containing the 1993 to 1998 model year Caterpillar engines for which Low Nox Engine Software Upgrades are available. These engines -- referred to here as "Reflashable Engines" -- are listed in this publication. We have agreed that Low NO_x Engine Software Upgrades ("Low NO_x Reflash Kits") must be installed as follows:

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- Whenever the owner/operator of any CALIFORNIA REGISTERED vehicle equipped with a Reflashable Engine requests installation of a Low NOx Reflash Kit; or
- If, as part of a regular service visit, the owner/operator of a CALIFORNIA REGISTERED vehicle equipped with a Reflashable Engine agrees to the installation of a Low NOx Reflash Kit; or
- When a Reflashable Engine undergoes a Power Conversion or rating upgrade (assuming the Reflash Kit and flash file are available for the engine configuration and rating).

The Low NOx Reflash Kits MUST be provided and installed at no charge to the vehicle owner/operator. The Dealer's costs incurred in installing the Low NOx Reflash Kits will be covered pursuant to the terms of this Low NOx Rebuild Program. Reflashed engines MUST be labeled as described in the "ACTION REQUIRED".

IMPORTANT: This document does NOT supersede the previous publication RP5580, which describes MANDATORY federal and California requirements to install Low NOx Rebuild Kits (flash file and label) in the event of a complete or partial engine rebuild. Caterpillar further extends this program, RP5581, to any customer that requests this program from an authorized dealer located in California regardless of the State of Registration of the vehicle.

Please reference the following URL for copies of the publication RP5581:

https://truckpreview.cat.com/cda/layout/0,,m-36341_x-7,00.html

DEALER PROMOTION

Please note that it is in everyone's best interest to install the Low NOx Reflash Kits on as many California registered Reflashable Engines as possible to avoid potential mandatory ARB Reflash requirements in the future.

Accordingly, we expect you to offer Low NOx Reflash Kits to all customers who own or operate a CALIFORNIA REGISTERED vehicle equipped with an Reflashable Engine, and who come in for service or who request a Low NOx Reflash during any service visit. Specifically, this voluntary Low NOx program offer should be implemented by:

- The attached form for the Low NOx Reflash Kit is to be attached to every service order, where the customer must either accept or decline the Low NOx Reflash Kit by initialing an accept/decline box and by signing the signature block. It is your responsibility to secure, for every service order for a Reflashable Engine, the customers' choice by way of the completed form attached to the service order (Caterpillar will supply the PDF file form.)
- A clearly visible sign displayed in a prominent position in the Dealer service area where service orders are typically completed highlighting the availability of the Low NOx Reflash Kit at no charge to the customer.

If the Reflashable Engine is already programmed with a Low NOx flash file and is labeled per publications RP5580 or RP5581, no further action is required. If the Reflashable Engine is already programmed with a Low NOx flash file and is not labeled per publication RP5581, label the engine as per "ACTION Required". The choice 'accept' should be indicated on the form attached to the service order.

AFFECTED PRODUCT (Reflashable Engines)

Model	Identification Number
3406E	5EK5767-99381, 6TS97-27803, 1LW1-33262, Reman 4AS1-385
3126	1WM210-26819, 4ES226-454, Reman 6RW1-UP
3126B	7AS1-32636
3116	8WL297-7351
3176B	9CK647-32975, Reman 3LZ1-UP
C-10	2PN1000-7278, 8YS449-7060, Reman AKB1-UP
C-12	1YN1200-12844, 9NS372-19786, Reman ALS1-UP

PARTS NEEDED

1	Appropriate flash file from SIS Web or SIS Disk. (All Low Nox Software will be identified in the "Description Box" as Low Nox Kit Software)
1	153-8524 Program Label (For Caterpillar Dealers and full Service TEPS Dealers) (Yellow color)

ACTION REQUIRED

1. Determine the Low Nox rebuild flash file that is compatible for the engine rating.
2. Install the correct flash file
3. Get the yellow colored 153-8524 low Nox Rebuild Program Label and fill in the date the software was installed and your dealer code using a black permanent marking pen. Install the Rebuild Program Label adjacent to the EPA Certification Film on all engines, except Reman engines. For Reman engines: 3406E (4AS) install the label in the center of the oil cooler: 3176B (3LZ), C-10 (AKB), C-12 (ALS) install on the front cover and for the 3126 (6RW) install on the valve cover. This Label is to remain on the engine for the life of the engines.

SERVICE CLAIM ALLOWANCES

Product smu/age whichever comes first	Caterpillar		Dealer Suggested		Customer Suggested	
	Parts	Labor Hrs	Parts	Labor Hrs	Parts	Labor Hrs

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	Caterpillar		Dealer Suggested		Customer Suggested	
Unlimited	100 %	0.5	0	0	0	0
NOTE: This is a 0.5 hour job.						
NOTE: Up to 100 Serial Numbers for one customer can be claimed on one claim. All serial numbers must be listed in the claim story. The interlock code will generate an automatic SIMS entry for each serial number.						

<u>Oty</u>	<u>SMCS Code</u>	<u>Labor Hrs</u>	<u>Description</u>
1 through 100	1920-591	0.5	Software

RP5581 Voluntary California Low Nox Reflash Program

_____ Dealer Code

_____ VIN:

_____ Engine Model:

_____ Engine Serial Number

_____ Rating (HP)

_____ Owner/Operator

I have been offered the Low NOx Rebuild Kit free of charge and

Accept	Decline

Initial your choice

Signature _____

Date of Signature ____/____/____

Note: To Caterpillar and Full Service TEPS Truck Dealers.

Original of this form must be filed with the Work Order and /or Service Report. A copy should be offered to the person signing the form.